

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. DOX 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/816,393	03/26/2001	Funitomo Matsuoka	205173US2S	7222
22850 7	07/02/2003			
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			EXAMINER	
1940 DUKE S' ALEXANDRI	STREET IA, VA 22314		TOLEDO, FERNANDO L	
			ART UNIT	PAPER NUMBER
			2823	

DATE MAILED: 07/02/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

			TWO .			
Ł		Application No.	Applicant(s)			
Office Action Summary		09/816,393	MATSUOKA, FUNITOMO			
		Examiner	Art Unit			
		Fernando Toledo	2823			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
THE MA - Extension after SI - If the period of the period	RTENED STATUTORY PERIOD FOR REPI AILING DATE OF THIS COMMUNICATION ons of time may be available under the provisions of 37 CFR 1 X (6) MONTHS from the mailing date of this communication. eriod for reply specified above is less than thirty (30) days, a re eriod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statu- ily received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tirply within the statutory minimum of thirty (30) day d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	nely filed /s will be considered timely. Ithe mailing date of this communication. ED (35 U.S.C. § 133).			
1)⊠	Responsive to communication(s) filed on 04	June 2003 .				
<u></u>		his action is non-final.				
3)□ :						
	n of Claims		.55 5.5. 2.5.			
4)⊠ C	Claim(s) <u>1-3,5-10 and 12-18</u> is/are pending i	n the application.				
4a) Of the above claim(s) <u>14-18</u> is/are withdrawn from consideration.						
5)□ C	claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-3,5-10,12 and 13</u> is/are rejected.						
7) 🗌 C	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application	n Papers					
9) <u> </u>	ne specification is objected to by the Examin	er.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)⊠ The proposed drawing correction filed on <u>29 November 2002</u> is: a)⊠ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority un	der 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠	All b)☐ Some * c)☐ None of:					
1	. Certified copies of the priority documer	nts have been received.				
2	. Certified copies of the priority documer	nts have been received in Applicati	ion No			
	. Copies of the certified copies of the pri application from the International B e the attached detailed Office action for a lis	ureau (PCT Rule 17.2(a)).	-			
14) <u></u> Acl	knowledgment is made of a claim for domes	stic priority under 35 U.S.C. § 119(e) (to a provisional application).			
	The translation of the foreign language packnowledgment is made of a claim for domes					

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _

Attachment(s)

4) Interview Summary (PTO-413) Paper No(s).

6) Other:

5) Notice of Informal Patent Application (PTO-152)

Application/Control Number: 09/816,393

Art Unit: 2823

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1 - 3, 5 - 10, 12 and 13 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Applicant's amendment claims that the second trench is formed without etching the substrate. There is no disclosure of such limitation in the specification of the present application.

The Applicant discloses on page 14, line 9 to page 15, line 3 that the second trench is formed by etching the insulating film of the dummy gate and the sidewalls with an etchant that has selectivity to the substrate. This shows that up to some extent the substrate would be etched and hence it would contradict with the new limitation of "without etching the substrate." Applicant does not show how the etching of the substrate would be prevented.

)

ŗ,

Application/Control Number: 09/816,393

Art Unit: 2823

Response to Arguments

Page 3

3. Applicant's arguments with respect to claims 1 - 3, 5 - 10, 12 and 13 have been

considered but are most in view of the new ground(s) of rejection. Applicant's limitation

of "without etching the substrate" overcomes the rejection of based on the combination

of Yu with AAPA since Yu clearly etches part of the substrate to create the second

trench.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Fernando Toledo whose telephone number is 703-305-

0567. The examiner can normally be reached on Mon-Fri 8am to 4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Olik Chaudhuri can be reached on 703-306-2794. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-308-7382

for regular communications and 703-308-7382 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0956.

George Fourson
Primary Examiner

Art Unit 2823

FToledo

June 27, 2003